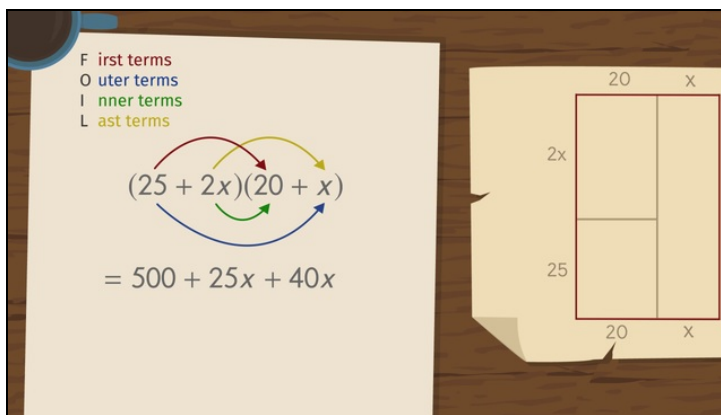




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

FOILING and Explanation for FOIL



- 1 **Decide when the FOIL method can be used.**
- 2 Calculate $(25 + 2x)(20 + x)$ using the FOIL method.
- 3 Determine the area of the zoo via the distributive property and the FOIL method.
- 4 Identify the right formula for calculating the area.
- 5 Calculate the new area of the zoo.
- 6 Find the mistakes in the calculations.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Decide when the FOIL method can be used.

Choose the correct statements.

- A
FOIL only works for adding two binomials.
- B
FOIL only works for subtracting two binomials.
- C
FOIL only works for multiplying two binomials.
- D
FOIL works for multiplying any polynomials.
- E
FOIL only works for adding a binomial and a trinomial.
- F
FOIL only works for multiplying two trinomials.



Hints for solving these problems

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of 6

Decide when the FOIL method can be used.

Hint #1

F stands for multiply the first terms.

O stands for multiply the outer terms

I stands for multiply the inner terms.

L stands for multiply the last terms.

Hint #2

A binomial is the result of adding or subtracting two monomials. For example:

- $2x$ and 3 are monomials.
 - $2x + 3$ is a binomial.
-

Hint #3

A trinomial is the result of adding or subtracting three monomials.



Answers and detailed answer explanations for these problems

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of 6

Decide when the FOIL method can be used.

Answer key: C

FOIL is an easy way to remember how to multiply two binomials.

And it only works when you are multiplying two binomials.

F stands for multiply the first terms.

O stands for multiply the outer terms

I stands for multiply the inner terms.

L stands for multiply the last terms.